MAN 2 8 2004 ET THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Duan et al.

Appl. No.: 10/674,060

Filed: September 30, 2003

For: Large Area Nanoenabled

Macroelectronic Substrates and

**Uses Therefor** 

Confirmation No.: 1190

Art Unit: 2812

Examiner: Anya, Igwe U.

Atty. Docket: 2132.0010002

## **Information Disclosure Statement**

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent

application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.
  - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first

cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- c. Attached is our PTO-2038 Credit Card Payment Form in the amount of 

  \_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$\_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
  - □ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

	☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of
	information in this Information Disclosure Statement was cited in a
	communication from a foreign patent office in a counterpart foreign
	application and, to my knowledge after making reasonable inquiry, was
	known to any individual designated in 37 C.F.R. § 1.56(c) more than
	three months prior to the filing of this Information Disclosure Statement.
	37 C.F.R. § 1.97(e)(2).
	The document(s) was/were cited in a search report by a foreign patent office in a
	counterpart foreign application. Submission of an English language version of
	the search report that indicates the degree of relevance found by the foreign office
	is provided in satisfaction of the requirement for a concise explanation of
	relevance. 1138 OG 37, 38.
<u> </u>	A concise explanation of the relevance of the non-English language document(s)
	appears below:
⊠ 7.	Copies of the documents are submitted herewith.
□ 8.	Copies of the documents were cited by or submitted to the Office in an IDS that
	complies with 37 C.F.R. § 1.98(a)-(c) in Application No, filed
	, which is relied upon for an earlier filing date under 35 U.S.C.
	§ 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
<u> </u>	No copies of U.S. patents and patent application publications cited on the
	attached Form PTO-1449 are submitted in accordance with 1276 OG 55 because
	this application was filed after June 30, 2003.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

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Jeffrey S. Weaver Attorney for Applicants

Registration No. 45,608

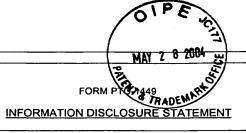
Date: May 28, 2004

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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INFOR	MATION	DISC	LOSURESTA	TEMENT	FILING DATE September 30, 2003 ART UNIT 2812					
				U.S. PA	TENT DOCUMENTS					
EXAMINER INITIAL		DOC	UMENT	DATE	NAME	CLAS	S SUB-CLASS	FILING DATE		
	AA1		2002/0130311	09/2002	Lieber et al.					
	AB1	US 2	2002/0130353	09/2002	Lieber et al.					
	AC1									
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				FOREIGN	PATENT DOCUMENTS		1			
EXAMINER INITIAL		DOC	UMENT IBER	DATE	COUNTRY	CLAS	S SUB-CLASS	TRANSLATION		
	AL1							Yes No		
	AM1							Yes No		
	AN1							Yes No		
	AO1							Yes No		
	AP1							Yes No		
	IAFI		OTHER (In	icluding Auth	or, Title, Date, Pertinent	Pages, e	etc.)	1 110		
	AR	1		Chung et al., "Silicon nanowire devices", American Institute of Physics, Vol. 76, No. 15, April 10, 2000, 5 pgs.						
	AS	1		Duan et al., "High-performance thin-film transistors using semiconductor nanowires and nanoribbons", Nature, Vol. 425, September 18, 2003, pgs. 274-278						
	АТ	1	Toshishige Yamada, "Analysis of submicron carbon nanotube field-effect transistors", Applied Physics Letters, Vol. 76, No. 5, January 31, 2000, American Institute of Physics, 5 pgs.							
EXAMINER	1	l	1			D	ATE CONSIDERED	)		

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



		Page 2 of 2
ATTY. DOCKET NO.	APPLICATION NO.	
2132.0010002	10/674,060	
FIRST NAMED INVENTOR Xiangfeng		
FILING DATE September 30, 2003	ART UNIT 2812	

				U.S.	PATENT DOCUMENT	S			
EXAMINER INITIAL		DOCU	JMENT BER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
	AA2								
	AB2								
	AC2								
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	AE2				·				
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EXAMINER INITIAL		DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
	AL2							Yes No	
	AM2							Yes No	
	AN2							Yes No	
	AO2							Yes No	
								Yes	
	AP2   No OTHER (Including Author, Title, Date, Pertinent Pages, etc.)								
	AR	Tans et al., "Room-temperature transistor based on a single carbon nanotube", Nature, Vol. 393, May							
	AS	2							
	АТ	2							
EXAMINER						DATE	CONSIDERED		
EXAMINER: In and not conside	itial if refe	rence co	nsidered, wh	ether or not citat	ion is in conformance with MI nication to Applicant.	PEP 609. Draw line thr	ough citation if no	t in conformance	